

Finding Ratios

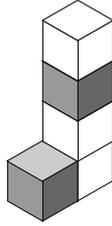
2 : 3

2 : 5

1 : 4

Ratio is used to compare two or more quantities.

Example



This solid has **5** cubes.

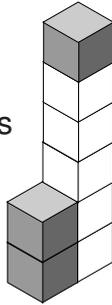
The ratio of shaded cubes to unshaded cubes is **2 : 3**

Write down the ratio of shaded cubes to unshaded cubes in the following solids.

This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

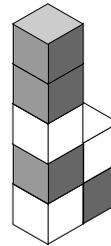
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

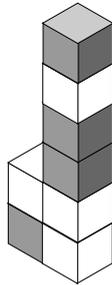
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

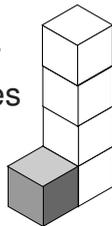
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

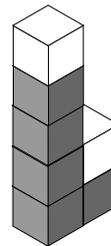
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

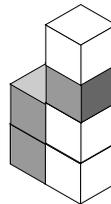
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

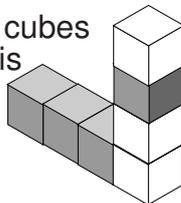
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

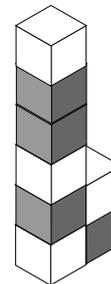
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

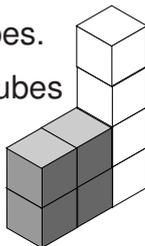
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

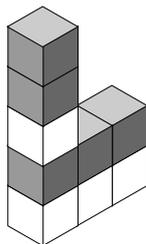
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This solid has cubes.

The ratio of shaded cubes to unshaded cubes is

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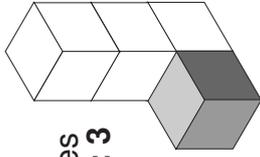


Ratio Matching

- Write down the ratio of shaded cubes to unshaded cubes for each of the 12 solids.
- Make four groups of three solids by matching equivalent ratios.

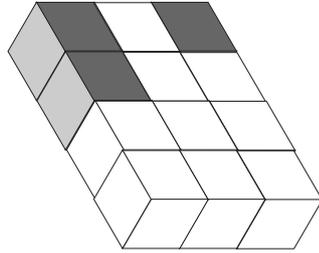
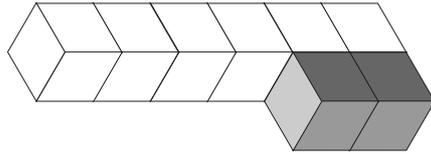
Example

These three solids are made from shaded cubes and unshaded cubes.



The ratio of shaded cubes to unshaded cubes is **1 : 3**

The ratio of shaded cubes to unshaded cubes is **2 : 6**



The ratio of shaded cubes to unshaded cubes is **3 : 9**

3 : 9
2 : 6
1 : 3. } are equivalent ratios

The ratio **1 : 3** is in the simplest form.

For every shaded cube there are **three** unshaded cubes.

1: 1x3x1 rod, 3 shaded cubes.
 2: 1x3x1 rod, 2 shaded cubes.
 3: 1x3x1 rod, 1 shaded cube.
 4: 1x3x1 rod, 1 shaded cube.
 5: 1x3x1 rod, 1 shaded cube.
 6: 1x3x1 rod, 2 shaded cubes.
 7: 1x2x1 rod, 1 shaded cube.
 8: 1x2x1 rod, 1 shaded cube.
 9: 1x2x1 rod, 1 shaded cube.
 10: 1x1x1 cube, 1 shaded cube.
 11: 2x2x1 slab, 3 shaded cubes.
 12: 2x2x1 slab, 3 shaded cubes.

The four equivalent groups are
 _____, _____ and _____
 _____, _____ and _____
 _____, _____ and _____
 _____, _____ and _____

Draw a circle around the ratio written in its simplest form.